

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
MEDICAL TOXICOLOGY BRANCH

SUMMARY OF TOXICOLOGY DATA

ALUMINUM PHOSPHIDE

SB 950-005, Tolerance # 225

SEPTEMBER 30, 1986
Revised: May 29, 1987

I. DATA GAP STATUS

Chronic rat: Data not required at this time.

Chronic dog: Data not required at this time.

Onco rat: Data not required at this time.

Onco mouse: Data not required at this time.

Repro rat: Data not required at this time.

Terato rat: Data not required at this time.

Terato rabbit: Data not required at this time.

Gene mutation: Data not required at this time.

Chromosome: Data not required at this time.

DNA damage: Data not required at this time.

Neurotox: Data not required at this time.

** indicates acceptable study

Bold face indicates possible adverse effect

File name = [10A] SB005ALU.WC2

II. TOXICOLOGY ONE-LINERS

Chronic rat

013 024, 027 938675 (5/13/71 Inst. fur Ind. Biol. Forschung-Publication)
JC 3/4/85; Aluminum Phosphide (phosphine, aluminum hydroxide, purity unknown); tested
0, 0.996 mg/kg; no adverse effect reported, incomplete; unacceptable; not upgradable (o
dose, dose too low, no
individual animal data).

Chronic dog

No study submitted

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Onco rat

No study submitted

Onco mouse

No study submitted

Repro rat

No study submitted

Terato rat

No study submitted

Terato mouse

No study submitted

Gene mutation

-005 43727 (Nomura Research Institute, 6/30/82) WNC 9/23/86 842-Muta-GNMU-Bacteria; Assay with Salmonella strains TA1535, TA100, TA1537, TA1538, TA98; E. coli WP2 strain; Aluminum Phosphide (actually tested compound was Hydrogen Phosphide [PH_3] released from Magnesium Phosphide [89% Mg_3P_2 and 11% edible paraffin]); 0, 640, 1280, 2560, 6400, 12800, ppm (nominal concentrations) with and without rat liver S9 activation; no adverse effect;

incomplete; unacceptable; not upgradable (no repeated trials, insufficient cytotoxicity data)
FILE NAME = [11C] W005BGM1.WNC

Chromosome

No study submitted

DNA damage

No study submitted

Neurotox

Not required

EPA one-liners

No EPA one-liners available as of September 30, 1986

SB005ALU.WC2 ALUMINUM PHOSPHIDE

III. REMARKS

EPA has concluded that the decomposition products of phosphine are

toxicologically insignificant at the levels found in the treated commodities and has waived the requirements for additional residue data and for chronic toxicity data. The same rationale which supports waiving chronic toxicity data also supports waiving metabolism and storage stability data. (EPA Guidance for the Reregistration of Pesticide Products Containing Aluminum Phosphide, February, 1986, An Amendment to the Registration Standard issued in October, 1981, pg. 10) [SB# 950-005, Tolerance# 225, Document# 43729]

